

**FEDERAL AVIATION ADMINISTRATION  
AIRWORTHINESS DIRECTIVES**

**SMALL AIRCRAFT, ROTORCRAFT, GLIDERS  
BALLOONS, AIRSHIPS, AND UAS**

**BIWEEKLY 2023-18**

08/14/2023 - 08/27/2023



Federal Aviation Administration  
Continued Operational Safety Policy Section, AIR-141  
P.O. Box 25082  
Oklahoma City, OK 73125-0460

## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

### Biweekly 2023-01

2022-26-01		GE Aviation Czech s.r.o.	M601D-11,M601E-11,M601E-11A,M601E-11AS,M601E-11S,M601F,H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2022-27-03		Leonardo S.p.a.	AB139,AW139
2022-27-08		Bell Textron Canada Limited	407

### Biweekly 2023-02

2022-27-09		Airbus Helicopters	EC130T2
2023-01-02		Leonardo S.p.a.	A109,A109A,A109A II,A109C,A109E,A109K2,A109S,AW109SP

### Biweekly 2023-03

2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-11		Safran Helicopter Engines S.A.	Makila 1A,Makila 1A1
2023-01-12		Safran Helicopter Engines S.A.	Arriel 1C,Arriel 1C1,Arriel 1C2
2023-02-03	R 2022-01-09	Stemme AG	Stemme S 10-VT,Stemme S 12
2023-02-04		Mooney International Corporation	M20C,M20D,M20E,M20F,M20G

### Biweekly 2023-04

2023-01-04		Airbus Helicopters	AS350B,AS350BA,AS350B1,AS350B2,AS350B3,AS350D,AS355E,AS355F,AS355F1,AS355F2,AS355N,AS355NP
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-08		Continental Aerospace Technologies GmbH	TAE 125-02-99,TAE 125-02-114
2023-01-10		GE Aviation Czech s.r.o.	M601E-11,M601E-11A,M601E-11AS,M601E-11S,M601F
2023-02-12		Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-E,GTSIO-520-F,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,IO-470-A,IO-470-C,IO-470-D,IO-470-E,IO-470-F,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-520-N,IO-520-NB,IO-520-P,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,IOF-550-B,IOF-550-C,IOF-550-D,IOF-550-E,IOF-550-F,IOF-550-L,IOF-550-P,IOF-550-R,LIO-470-A,LIO-520-P,LTSIO-520-AE,O-470-A,O-470-E,O-470-G,O-470-G-CI,O-470-H,O-470-J,O-470-K,O-470-K-CI,O-470-L,O-470-L-CI,O-470-M,O-470-M-CI,O-470-N,O-470-P,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-470-B,TSIO-470-C,

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			TSIO-470-D,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-N,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-U,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIOF-550-D,TSIOF-550-J,TSIOF-550-K,TSIOL-550-A,TSIOL-550-C
2023-03-01		Airbus Helicopters Deutschland GmbH	BO-105A,BO-105C,BO-105S,BO-105LS A-1,BO-105LS A-3,MBB-BK 117 A-1,MBB-BK 117 A-3,MBB-BK 117 A-4,MBB-BK 117 B-1,MBB-BK 117 B-2,MBB-BK 117 C-1,MBB-BK 117 C-2,MBB-BK 117 D-2
2023-03-10		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
<b>Biweekly 2023-05</b>			
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-02-17		Textron Aviation Inc.	210N,210R,P210N,P210R,T210N,T210R,177,177A,177B,177RG,F177RG
2023-03-02		Pratt & Whitney Canada Corp.	PT6E-67XP
2023-03-03		Leonardo S.p.a.	AB139,AW139
2023-03-12	R 2004-04-09	Pratt & Whitney Canada Corp.	JT15D-1,JT15D-1A,JT15D-1B
2023-03-13		Airbus Helicopters	AS355E,AS355F,AS355F1,AS355F2,AS355N
2023-04-08		Continental Aerospace Technologies, Inc. (Continental®)	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-D,IO-470-E,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,

## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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TSIO-360-E,TSIO-360-EB,TSIO-360-G,TSIO-360-GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C

**Biweekly 2023-06**

2023-03-14		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
2023-03-22	R 2015-09-04 R1	DG Flugzeugbau GmbH,Schempp-Hirth Flugzeugbau GmbH	DG-1000T,Duo Discus T
2023-04-20		Cirrus Design Corporation	SF50

**Biweekly 2023-07**

2023-05-03	R 2022-14-14	Alexander Schleicher GmbH & Co. Segelflugzeugbau	ASW -15,ASW-15B
2023-05-09		Airbus Helicopters Deutschland GmbH	EC135P3,EC135T3,MBB-BK 117 D-2,MBB-BK 117 D-3
2023-05-16	R 2023-04-08	Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-A,IO-470-C,IO-470-D,IO-470-E,IO-470-F,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,TSIO-360-E,TSIO-360-EB,TSIO-360-F,TSIO-360-FB,TSIO-360-G,TSIO-360-

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GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C

2023-06-11

Viking Air Limited

DHC-2 Mk.I

**Biweekly 2023-08**

2023-07-51

E

Leonardo S.p.a.

AB139,AW139

**Biweekly 2023-09**

2023-06-05

Bell Textron Canada Limited

206A,206A-1 (OH-58A),206B,206B-

2023-07-08

Pilatus Aircraft Ltd.

1,206L,206L-1,206L-3,206L-4  
PC-12/47E

**Biweekly 2023-10**

2023-06-14

Pratt & Whitney Canada Corp.

PW308A,PW308C

2023-07-03

Leonardo S.p.a.

AB412,AB412 EP

**Biweekly 2023-11**

2023-08-06

A 2020-20-08

Airbus Helicopters

AS332C,AS332C1,AS332L,AS332L1,AS332  
L2,EC225LP

2023-08-07

Allied Ag Cat Productions Inc.

G-164A,G-164B

**Biweekly 2023-12**

2023-09-07

R 2022-02-01

Sikorsky Aircraft Corporation

S-92A

2023-09-12

Pilatus Aircraft Ltd.

PC-12,PC-12/45,PC-12/47,PC-12/47E

2023-10-02

R 2021-23-12

The Boeing Company,Airbus SAS,Bombardier Inc.,Embraer S.A.,Gulfstream Aerospace Corporation,Gulfstream Aerospace LP,Textron Aviation Inc.,Pilatus Aircraft Limited,Fokker Services B.V.,Saab AB Support and Services,De Havilland Aircraft of Canada Limited,Airbus Canada Limited Partnership,ATR - GIE Avions de Transport Régional,MHI RJ Aviation ULC,BAE Systems (Operations) Limited,Lockheed Martin Corporation,Lockheed Martin Aeronautics Company,Viking Air Limited,Dassault Aviation

18,23,35,36,50,58,60,65,70,76,77,95,99,100,111,120,140,150,152,170,172,175,177,180,182,185,188,190,195,200,206,207,208,210,300,314,320,321,335,336,337,340,382,390,400,401,402,404,406,408,411,414,421,425,441,500,501,510,525,550,551,552,560,650,680,700,750,1900,2000,4000,1049-54,1049B-55 (Navy R7V-1),1049C-55,1049D-55,1049E-55,1049F-55 (USAF C-121C),1049H-82,1049G-82,1125 Westwind Astra,1329-23A,1329-23E,1329-25,1329-23D,150A,150B,150C,150D,150E,150F,150G,150H,150J,150K,150M,150L,

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170A,170B,172A,172B,172C,172D,172E,172G,172F (USAF T-41A),172H (USAF T-41A),172I,172K,172L,172M,172N,172P,172Q,172R,172RG,172S,175A,175B,175C,177A,177B,180A,180B,180C,180D,180F,180E,180G,180H,180J,180K,182A,182B,182C,182D,182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R,182S,182T,185A,185B,185C,185D,185E,188A,188B,188C,18D,18S (Army C-45C),1900C,1900C (C-12J),1900D,195B,19A,200C,200CT,200T,206H,207A,210-5 (205),210-5A (205A),210A,210B,210C,210D,210E,210F,210G,210H,210J,210K,210L,210M,210N,210R,300LW,320-1,320A,320B,320C,320D,320E,320F,337A,337B,337C,337D,337E,337F,337G,337H,340A,35-33,35-A33,35-B33,35-C33,35-C33A,35R,382B,382E,382G,382J,382F,3N,3NM,400A,400T,401A,401B,402A,402B,402C,411A,414A,421A,421B,421C,49-46,525A,525B,525C,560XL,56TC,58A,58P,58PA,58TCA,58TC,649-79,649A-79,65-80,65-88,65-90,65-A80,65-A80-8800,65-A90,65-A90-1,65-A90-2,65-A90-3,65-A90-4,65-B80,680A,707-100 Long Body,707-100B Long Body,707-200,707-300 Series,707-300C Series,707-400 Series,707-100B Short Body,707-300B Series,717-200,720 Series,727 Series,727-100C Series,727-200 Series,727-200F Series,727-100 Series,727C Series,737-100 Series,737-200 Series,737-200C Series,737-300 Series,737-400 Series,737-500 Series,737-600 Series,737-700 Series,737-700C Series,737-800 Series,737-900 Series,737-900ER Series,737-8200,737-8,737-9,747-100 Series,747-100B Series,747-100B SUD Series,747-200B Series,747-200C Series,747-200F Series,747-300 Series,747-400 Series,747-400D Series,747-400F Series,747SP Series,747SR Series,747-8 Series,747-8F Series,749-79,749A-79,75 (Army PT-13),757-200 Series,757-200CB Series,757-200PF Series,757-300 Series,767-2C Series,767-200 Series,767-300 Series,767-300F Series,767-400ER Series,777-200 Series,777-200LR Series,777-300 Series,777-300ER Series,777F Series,787-8,787-9,787-10,80-A,95-55,95-A55,95-B55,95-B55A,95-B55B,95-C55,95-C55A,99A,A100,A100-1 (U-21J),A100A,A100C,A150K,A150L,A150M,A152,A185E,A185F,A188,A188B,A188A,A18A,A18D,A200 (C-12A),A200 (C-

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12C),A200C (UC-12B),A200CT (C-12D),A200CT (C-12F),A200CT (FWC-12D),A200CT (RC-12D),A200CT (RC-12G),A200CT (RC-12H),A200CT (RC-12K),A200CT (RC-12P),A200CT (RC-12Q),A23,A23-19,A23A,A23-24,A24,A24R,A300 B2-1A,A300 B2-1C,A300 B2-203,A300 B2K-3C,A300 B4-2C,A300 B4-103,A300 B4-203,A300 B4-601,A300 B4-603,A300 B4-605R,A300 B4-620,A300 B4-622,A300 B4-622R,A300 C4-605R Variant F,A300 F4-605R,A300 F4-622R,A310-203,A310-204,A310-221,A310-222,A310-304,A310-322,A310-324,A310-325,A-314,A318-111,A318-112,A318-121,A318-122,A319-111,A319-112,A319-113,A319-114,A319-115,A319-131,A319-132,A319-133,A319-151N,A319-153N,A319-171N,A320-211,A320-212,A320-214,A320-216,A320-231,A320-232,A320-233,A320-251N,A320-252N,A320-253N,A320-271N,A320-272N,A320-273N,A321-111,A321-112,A321-131,A321-211,A321-212,A321-213,A321-231,A321-232,A321-251N,A321-251NX,A321-252N,A321-252NX,A321-253N,A321-253NX,A321-271N,A321-271NX,A321-272N,A321-272NX,A330-201,A330-202,A330-203,A330-223,A330-223F,A330-243,A330-243F,A330-301,A330-302,A330-303,A330-321,A330-322,A330-323,A330-341,A330-342,A330-343,A330-841,A330-941,A340-211,A340-212,A340-213,A340-311,A340-312,A340-313,A340-541,A340-642,A35,A350-941,A350-1041,A36,A36TC,A380-841,A380-842,A380-861,A45 (Military T-34A; B-45),A56TC,A65,A65-8200,A75 (Army PT-13A; -13B; -13C),A75J1 (Army PT-18),A75L3,A75L300,A75N1 (Army PT-17; -17A; Navy N2S-1; -4),A99,A99A,Army AT-11,Astra SPX,AT-6 (SNJ-2),AT-6A (SNJ-3),AT-6B,AT-6C (SNJ-4),AT-6D (SNJ-5),AT-6F (SNJ-6),ATR42-200,ATR42-300,ATR42-320,ATR42-500,ATR72-101,ATR72-102,ATR72-201,ATR72-202,ATR72-211,ATR72-212,ATR72-212A,Avro 146-RJ70A,Avro 146-RJ85A,Avro 146-RJ100A,B100,B19,B200,B200C,B200C (C-12F),B200C (C-12R),B200C (UC-12F),B200C (UC-12M),B200CGT,B200CT,B200GT,B200T,B23,B24R,B300,B300C,B300C (MC-12W),B300C (UC-12W),B35,B36TC,B50,B60,B75 (Navy N2S-5),B95,B95A,B99,BAC 1-11 400 Series,BAC 1-11 200 Series,BAe 146-100A,BAe 146-200A,BAe 146-300A,BAe.125 Series 800A,BAe.125 Series 800A (C-29A),BAe.125 Series 800A

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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

(U-125),BAe.125 Series 800B,BAe.125 Series 1000A,BAe.125 Series 1000B,BC-1A,BD-500-1A10,BD-500-1A11,BD-700-1A10,BD-700-1A11,BD-700-2A12,Beagle B.121 Series 1,Beagle B.121 Series 2,Beagle B.121 Series 3,BH.125 Series 400A,BH.125 Series 600A,C23,C24R,C35,C-45G,C-45H,C50,C54-DC,C54A-DC,C54B-DC,C54D-DC,C54G-DC,C54E-DC,C90,C90A,C90GT,C90GTi,C99,CL-215-1A10,CL-215-6B11 (CL-215T Variant),CL-215-6B11 (CL-415 Variant),CL-44J,CL-600-1A11 (CL-600),CL-600-2A12 (CL-601),CL-600-2B16 (CL-601-3A),CL-600-2B16 (CL-601-3R),CL-600-2B16 (CL-604),CL-600-2B19 (Regional Jet Series 100),CL-600-2B19 (Regional Jet Series 440),CL-600-2C10 (Regional Jet Series 701),CL-600-2C10 (Regional Jet Series 702),CL-600-2C11 (Regional Jet Series 550),CL-600-2D15 (Regional Jet Series 705),CL-600-2D24 (Regional Jet Series 900),CL-600-2E25 (Regional Jet Series 1000),D18C,D18S,D35,D45 (Military T-34B),D50,D50A,D50B,D50C,D50E,D50E-5990,D55,D55A,D75N1 (Army PT-27),D95A,DC-10-10,DC-10-10F,DC-10-15,DC-10-30,DC-10-30F (KC-10A KDC-10),DC-10-40F,DC-10-40,DC3A-S1C3G,DC3A-S1CG,DC3A-S4C4G,DC3A-SC3G,DC3A-SCG,DC3C-R-1830-90C,DC3C-S1C3G,DC3C-SC3G,DC3C-S4C4G,DC3D-R-1830-90C,DC3-G102,DC3-G102A,DC3-G103A,DC3-G202A,DC-4,DC-6B,DC-7B,DC-7C,DC-6,DC-6A,DC-7,DC-8-11,DC-8-12,DC-8-21,DC-8-31,DC-8-32,DC-8-33,DC-8-41,DC-8-42,DC-8-43,DC-8-51,DC-8-52,DC-8-53,DC-8-55,DC-8-61,DC-8-61F,DC-8-62,DC-8-62F,DC-8-63,DC-8-63F,DC-8-71,DC-8-71F,DC-8-72,DC-8-72F,DC-8-73,DC-8-73F,DC-8F-54,DC-8F-55,DC-9-11,DC-9-12,DC-9-13,DC-9-14,DC-9-15,DC-9-15F,DC-9-21,DC-9-31,DC-9-32,DC-9-32 (VC-9C),DC-9-32F,DC-9-32F (C-9A),DC-9-32F (C-9B),DC-9-33F,DC-9-34,DC-9-34F,DC-9-41,DC-9-51,DC-9-81 (MD-81),DC-9-82 (MD-82),DC-9-83 (MD-83),DC-9-87 (MD-87),DH.125 Series 1A,DH.125 Series 1A-522,DH.125 Series 1A/R-522,DH.125 Series 1A/S-522,DH.125 Series 3A,DH.125 Series 3A/R,DH.125 Series 3A/RA,DH.125 Series 400A,DHC-2 Mk.I,DHC-2 Mk.II,DHC-2 Mk.III,DHC-4,DHC-4A,DHC-6-1,DHC-6-100,DHC-6-200,DHC-6-300,DHC-6-400,DHC-7-1,DHC-7-100,DHC-7-101,DHC-7-102,DHC-7-103,E17B (Army



## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

UC-43D),E17L,E18S,E18S-9700,E310H,E310J,E33,E33A,E33C,E35,E50,E55,E55A,E75 (Army PT-13D; Navy N2S-5; PT-13D/N2S-5),E75N1 (Army PT-13D; Navy N2S-5; PT-13D/N2S-5),E90,E95,EMB-110P1,EMB-110P2,EMB-120,EMB-120FC,EMB-120QC,EMB-120RT,EMB-120ER,EMB-135,EMB-135BJ (Legacy 600),EMB-135BJ (Legacy 650),EMB-135BJ,EMB-135ER,EMB-135KE,EMB-135KL,EMB-135LR,EMB-145EP,EMB-145ER,EMB-145LR,EMB-145MP,EMB-145MR,EMB-145XR,EMB-500,EMB-505,EMB-545,EMB-550,ERJ 170-100 LR,ERJ 170-100 SE,ERJ 170-100 STD,ERJ 170-100 SU,ERJ 170-200 LL,ERJ 170-200 LR,ERJ 170-200 STD,ERJ 170-200 SU,ERJ 190-100 ECJ,ERJ 190-100 IGW,ERJ 190-100 LR,ERJ 190-100 STD,ERJ 190-200 IGW,ERJ 190-200 LR,ERJ 190-200 STD,ERJ 190-300,ERJ 190-400,F150F,F150G,F150H,F150J,F150K,F150L,F150M,F152,F172D,F172E,F172F,F172G,F172H,F172K,F172L,F172M,F172N,F172P,F172D (UC-43C),F27 Mark 050,F27 Mark 100,F27 Mark 200,F27 Mark 300,F27 Mark 400,F27 Mark 500,F27 Mark 600,F27 Mark 700,F28 Mark 0070,F28 Mark 0100,F28 Mark 1000,F28 Mark 2000,F28 Mark 3000,F28 Mark 4000,F33,F33A,F33C,F337E,F337F,F337G,F337H,F35,F50,FA150K,FA150L,FA150M,FA152,Falcon 7X,Falcon 900EX,FALCON 2000,FALCON 2000EX,Falcon 10,Fan Jet Falcon,Fan Jet Falcon Series C,Fan Jet Falcon Series D,Fan Jet Falcon Series E,Fan Jet Falcon Series F,Fan Jet Falcon Series G,FP172D,FR172E,FR172F,FR172G,FR172H,FR172J,FR172K,FRA150L,FRA150M,FT337E,FT337F,FT337GP,FT337HP,G-1159,G-1159A,G-1159B,G18S,G33,G50,G58,G-IV,GIV-X,Gulfstream 100,Gulfstream 200,GV,GV-SP,GVI,GVII-G500,GVII-G600,H18,H35,H50,H90,Hawker 750,Hawker 800,Hawker 800 (U-125A),Hawker 800XP,Hawker 850XP,Hawker 900XP,Hawker 1000,HS 748 Series 2A,HS 748 Series 2B,HS.125 Series 1B,HS.125 Series 1B-522,HS.125 Series 1B/R-522,HS.125 Series 1B/S-522,HS.125 Series 3B,HS.125 Series 3B/R,HS.125 Series 3B/RA,HS.125 Series 3B/RB,HS.125 Series 3B/RC,HS.125 Series 400A,HS.125 Series 400B,HS.125 Series 400B/1,HS.125 Series 401B,HS.125 Series 403A(C),HS.125 Series 403B,HS.125 Series 600A,HS.125 Series 600B,HS.125 Series 600B/1,HS.125 Series

## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

600B/2,HS.125 Series 600B/3,HS.125 Series  
 700A,HS.125 Series 700B,HS.125 Series  
 F3B,HS.125 Series F3B/RA,HS.125 Series  
 F400B,HS.125 Series F403B,HS.125 Series  
 F600B,IB75A,J35,JRB-6,K35,L-1011-385-  
 1,L-1011-385-1-14,L-1011-385-1-15,L-1011-  
 385-3,LC40-550FG,LC40-550G,LC41-  
 550FG,M19A,M337B,M35,MD-10-10F,MD-  
 10-30F,MD-11,MD-11F,MD-88,MD-90-  
 30,MU-300-10,MU-300,Mystere-Falcon 20 -  
 C5,Mystere-Falcon 20 - D5,Mystere-Falcon 20  
 - E5,Mystere-Falcon 20 - F5,Mystere-Falcon  
 50,Mystere-Falcon 200,Mystere-Falcon  
 900,N35,Navy R6D-1,Navy R6D-  
 1Z,P172D,P206,P206A,P206B,P206C,P206D,  
 P206E,P210N,P210R,P337H,P35,R172E,R17  
 2F,R172G,R172H,R172J,R172K,R182,R4D-  
 8,R4D-8Z,RC-  
 45J,S18A,S18D,S35,SA18A,SA18D,SA-  
 307B,SA-307B-1,SAAB 340B,340A (SAAB  
 SF340A),SAAB 2000,SC-7 Skyvan Series  
 2,SC-7 Skyvan Series 3,SD17S,SD3-30,SD3-  
 60,SD3-60 SHERPA,SD3-SHERPA,Super  
 DC-  
 3,T182,T182T,T188C,T206H,T207,T207A,T2  
 10F,T210G,T210H,T210J,T210K,T210L,T210  
 M,T210N,T210R,T240,T310P,T310Q,T310R,  
 T337B,T337C,T337D,T337E,T337F,T337G,T  
 337H,T337H-SP,T-6G,TC-45G,TC-45H,TC-  
 45J,TP206A,TP206B,TP206C,TP206D,TP206  
 E,TR182,TU206A,TU206B,TU206C,TU206D  
 ,TU206E,TU206F,TU206G,U206,U206A,U20  
 6B,U206C,U206D,U206E,U206F,U206G,UC-  
 45J,USAF C-118A,V35,V35A,V35B,12-  
 B,140A,149-46,1649A-  
 98,177RG,18A,195A,203-B,208B,247-D  
 (Army C-73),300-50A-01 (USAF C-  
 141A),3TM,402-2,45 (Military YT-34),720B  
 Series,80-A1,99A (FACH),A60,ATP,B18S  
 (Army F-2),B75N1 (Navy N2S-3),B90,BD-  
 100-1A10 (Challenger 300),C18S,CL-  
 44D4,D17A (Army UC-43F),D17R (Army  
 UC-43A),D17S,DHC-3,Electra 10-  
 E,F177RG,F90,FR182,G-  
 159,G17S,G35,G36,Galaxy,Gulfstream  
 G150,Gulfstream G280,HU-16D,J50,Jetstream  
 Model 4101,LC42-550FG,NA-260,Navy  
 SNB-1,O-47B,PC-24,S-  
 307,S550,SE17B,SF17D,SNJ-7,Super  
 Universal,T303,T-34C,TR-1

2023-10-05

R 2023-07-51

Leonardo S.p.a.

AB139,AW139

2023-11-03

Honda Aircraft Company LLC

HA-420

**Biweekly 2023-13**

2023-09-09

Aerostar Aircraft Corporation,B-N Group  
 Ltd.,Commander Aircraft

PA-60-600 (Aerostar 600),PA-60-601  
 (Aerostar 601),PA-60-601P (Aerostar

## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

<p>Corporation,Cirrus Design            Corporation,Continental Aerospace            Technologies Inc.,Costruzioni Aeronautiche            Tecnam S.P.A.,Daher Aerospace,Diamond            Aircraft Industries Inc.,The Enstrom Helicopter            Corporation,Helio Aircraft LLC,Helio Alaska            Inc.,The King's Engineering            Fellowship,Lycoming Engines,Maule            Aerospace Technology Inc.,Merlyn Products            Inc.,Mooney International Corporation,Piper            Aircraft Inc.,Revo Incorporated,Scotts-Bell 47            Inc.,Siam Hiller Holdings Inc.,SST            FLUGTECHNIK GmbH,Textron Aviation            Inc.,Triton Aerospace LLC,Twin Commander            Aircraft LLC,Vulcanair S.p.A.</p>	<p>601P),PA-60-602P (Aerostar 602P),PA-60-            700P (Aerostar 700P),BN-2,BN-2A,BN-2A-            6,BN-2A-8,BN-2A-            9,112TC,112TCA,114TC,SR22,SR22T,LTSI            O-360-E,LTSIO-360-EB,LTSIO-360-            KB,LTSIO-360-RB,TSIO-360-E,TSIO-360-            EB,TSIO-360-F,TSIO-360-FB,TSIO-360-            KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-            RB,TSIO-360-SB,TSIO-520-BE,TSIO-520-            L,TSIO-520-LB,TSIO-520-T,TSIO-520-            WB,TSIO-550-A,TSIO-550-B,TSIO-550-            C,TSIO-550-E,TSIO-550-G,TSIO-550-            J,TSIO-550-K,TSIO-550-N,TSIOF-550-            D,TSIOF-550-J,IO-520-B,IO-520-BA,IO-520-            BB,IO-520-D,IO-550-B,IO-550-E,IO-550-            N,P2012 Traveller,TB 21,DA 40,F-28C,F-            28C-2,F-28C-2R,F-28F,F-28F-            R,280C,280F,280FX,500,H-295 (USAF            U10D),H-395 (USAF L-28A or U-10B),4500-            300,4500-300 Series II,IO-540-AA1A5,IO-            540-AG1A5,IO-540-S1A5,TIO-540-            AE2A,TIO-540-AH1A,LTIO-540-J2BD,TO-            360-C1A6D,TO-360-E1A6D,LTO-360-            A1A6D,LTO-360-E1A6D,TIO-540-J2BD,M-            5-210TC,IO-540-            MX1,M20J,M20K,M20M,M20TN,M20V,PA-            23,PA-23-160,PA-23-235,PA-23-250,PA-23-            250 (Navy UO-1),PA-E23-250,PA-24-            250,PA-24-260,PA-24-400,PA-28-201T,PA-            28R-201T,PA-28RT-201T,PA-30,PA-31,PA-            31-325,PA-31-350,PA-31P,PA-31P-350,PA-            32-260,PA-32R-300,PA-32RT-300T,PA-32R-            301 (SP),PA-32-301T,PA-32R-301T,PA-34-            200,PA-34-200T,PA-34-220T,PA-39,PA-44-            180T,PA-46-310P,PA-46-350P,Lake LA-            4,Lake LA-4A,Lake LA-4-200,Lake 250,47G-            3B,47G-3B-1,47G-3B-2,47G-3B-2A,UH-            12L,UH-12L4,EA 400-500,35-33,35-A33,35-            B33,35-C33,35-            C33A,E33,E33A,E33C,F33,F33A,F33C,H35,J            35,K35,M35,N35,P35,S35,V35,V35A,V35B,3            6,A36,A36TC,B36TC,D55,E55,56TC,A56TC,            58,G58,60,A60,B60,95,95-            C55,B95,B95A,D95A,E95,185,185A,185B,18            5C,185D,185E,A185E,A185F,A188,A188A,A            188B,T182,T182T,TR182,T188C,206,P206A,            P206,P206B,P206C,P206D,P206E,T206H,TP            206A,TP206B,TP206C,TP206D,TP206E,TU2            06A,TU206B,TU206C,TU206D,TU206E,TU2            06F,TU206G,U206,U206A,U206B,U206C,U2            06D,U206E,U206F,U206G,T207,T207A,210,            210A,210B,210C,210-5 (205),210-5A            (205A),P210N,T210G,T210H,T210J,T210K,T            210L,T210M,T210N,T240,T303,310,310B,31            0C,310D,310E,310F,310G,310H,310I,310J,T3            10P,T310Q,T310R,320,320A,320B,320C,320            D,320E,320F,320-</p>
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## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

1,321,335,340,340A,LC40-550FG,LC41-550FG,LC42-550FG,FT337E,FT337F,FT337GP,FT337HP,P337H,T337B,T337C,T337D,T337E,T337F,T337G,T337H,T337H-SP,401,401A,401B,402,402A,402B,402C,404,411,411A,414,414A,421,421A,421B,421C,A500,500-A,500-B,500-S,500-U,560-A,560-E,685,P.68C-TC,P.68TC Observer,EA-400

2023-11-05 R 2021-10-28

Pilatus Aircraft Ltd.

PC-24

2023-11-12

DAHER AEROSPACE

TBM 700

**Biweekly 2023-14**

2023-11-07 R 2021-23-13

Airbus Helicopters,Airbus Helicopters Deutschland GmbH,Air Space Design and Manufacturing LLC,Bell Textron Canada Limited,Bell Textron Inc.,Brantly International Inc.,Centerpointe Aerospace Inc.,Columbia Helicopters Inc.,The Enstrom Helicopter Corporation,Erickson Air-Crane Incorporated DBA Erickson Air-Crane,Erickson Incorporated DBA Erickson Air-Crane,Hélicoptères Guimbal,Siam Hiller Holdings Inc.,Kaman Aerospace Corporation,Leonardo S.p.a.,MD Helicopters Inc.,PZL-Swidnik S.A.,Robinson Helicopter Company,Schweizer RSG LLC,Scotts-Bell 47 A Inc.,Sikorsky Aircraft Corporation

47,206,210,212,222,230,234,280,305,369,407,412,427,429,430,480,505,1100,107-II,204B,205A,205A-1,205B,206A,206A-1,206A-1 (OH-58A),206B,206B-1,206L,206L-1,206L-3,206L-4,222B,222U,269A,269A-1,269B,269C,269C-1,269D,280C,280F,280FX,369A,369D,369E,369F,369FF,369H,369HE,369HM,369HS,412CF,412EP,47B,47B3,47D,47D1,47E,47G,47G-2,47G-2A,47G-2A-1,47G-3,47G-3B,47G-3B-1,47G-3B-2,47G-3B-2A,47G-4,47G-4A,47G-5,47G-5A,47H-1,47J,47J-2,47J-2A,47K,480B,500N,600N,A109,A109A,A109A II,A109C,A109E,A109K2,A109S,A119,AB139,AB412,AB412 EP,AS332C,AS332C1,AS332L,AS332L1,AS332L2,AS350B,AS350B1,AS350B2,AS350B3,AS350BA,AS350C,AS350D,AS350D1,AS355E,AS355F,AS355F1,AS355F2,AS355N,AS355NP,AS-365N2,AS-365N3,AW109SP,AW119 MKII,AW139,AW169,AW189,B-2,B-2A,B-2B,BO-105A,BO-105C,BO-105LS A-1,BO-105LS A-3,BO-105S,CABRI G2,CH-47D,CH-54A,EC155B,EC120B,EC130B4,EC130T2,EC155B1,EC225LP,F-28,F-28A,F-28C,F-28C-2,F-28C-2R,F-28F,F-28F-R,FH-1100,K-190A,K-240,K-600,MBB-BK 117 A-1,MBB-BK 117 A-3,MBB-BK 117 A-4,MBB-BK 117 B-1,MBB-BK 117 B-2,MBB-BK 117 C-1,MBB-BK 117 C-2,MBB-BK 117 D-2,MBB-BK 117 D-3,MD900,OH-13E,OH-13H,PZL W-3A,R22,R22 ALPHA,R22 BETA,R22 MARINER,R44,R44 II,R66,S-51,S-52,S-55,S-55B,S-55C,S-58A,S-58B,S-58BT,S-58C,S-58D,S-58DT,S-58E,S-58ET,S-58F,S-58FT,S-58G,S-58H,S-58HT,S-58J,S-58JT,S-61A,S-61D,S-61E,S-61L,S-61N,S-61NM,S-61R,S-61V,S62A,S-64A,S-64E,S-64F,S-70,S-70A,S-70C,S-70C(M),S-70C(M1),S-70M,S-76A,S-76B,S-76C,S-76D,S-92A,SA 3180-Alouette Astazou,SA 318B-Alouette

## SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

Astazou,SA 318C-Alouette Astazou,SA.315B Alouette III,SA.316B Alouette III,SA.316C Alouette III,SA.319B Alouette III,SA330J,SA341G,SA342J,SA-365C,SA-365C1,SA-365C2,SA-365N,SA-365N1,SA-366G1,SE 313B-Alouette II,SE 3130-Alouette II,SE.3160 Alouette III,TH-1L,TH-28,UH-12,UH-12A,UH-12B,UH-12C,UH-12E,UH-12E-L,UH-12L,UH-12L4,UH-1E,UH-1L,K-225

2023-13-51	E	Airbus Helicopters	SA341G,SA342J
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### Biweekly 2023-15

2023-12-04		Pilatus Aircraft Ltd.	PC-24
2023-12-17	R 2022-19-03	Pilatus Aircraft Ltd.	PC-12,PC-12/47,PC-12/45,PC-12/47E
2023-12-24		GE Aviation Czech s.r.o.	M601E-11AS,M601E-11S,H75-100,H80-100,H85-100
2023-12-26	R 2021-24-04	Bell Textron Canada Limited	505
2023-13-14	2023-01-12	Safran Helicopter Engines S.A.	Arriel 1C,Arriel 1C1,Arriel 1C2,Arriel 1K1

### Biweekly 2023-16

2023-13-08	R 2021-05-03	Airbus Helicopters	EC225LP
2023-13-51	R 2022-19-08	Airbus Helicopters	SA341G,SA342J

### Biweekly 2023-17

2023-14-06		Airbus Helicopters	EC120B,EC130B4,EC130T2
2023-14-07		Airbus Helicopters	EC155B1
2023-15-03		Safran Helicopter Engines S.A.	Arrius 2B2
2023-15-07		Air Tractor Inc.	AT-802,AT-802A

### Biweekly 2023-18

2023-15-06		Pilatus Aircraft Ltd.	PC-24
2023-16-04		Piaggio Aviation S.p.A	P-180
2023-17-51	E	Bell Textron Canada Limited	407

## The Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends [14 CFR part 39](#) as follows:

## PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: [49 U.S.C. 106\(g\)](#), [40113](#), [44701](#).

### § 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

**2023–15–06 Pilatus Aircraft Ltd:** Amendment 39–22518; Docket No. FAA–2023–1042; Project Identifier MCAI–2023–00274–A.

#### (a) Effective Date

This airworthiness directive (AD) is effective September 27, 2023.

#### (b) Affected Ads

None.

#### (c) Applicability

This AD applies to Pilatus Aircraft Ltd. Model PC–24 airplanes, all serial numbers, certificated in any category.

#### (d) Subject

Joint Aircraft System Component (JASC) Code: 2100, Heating System.

#### (e) Unsafe Condition

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation

product. The MCAI states that there have been reports of an electrical burning smell in the cabin without the presence of smoke and there is currently no airplane flight manual (AFM) procedure for addressing this condition. The FAA is issuing this AD to provide the flight crew with a new procedure in the existing AFM for your airplane to address the presence of an electrical burning smell in the cabin without the presence of smoke. This condition, if not addressed, could lead to increased pilot workload, possibly resulting in a reduction of safety margins and an emergency landing.

#### **(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

#### **(g) Required Action**

(1) Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, European Union Aviation Safety Agency (EASA) AD 2023–0038, dated February 14, 2023 (EASA AD 2023–0038).

(2) The actions required by paragraph (g)(1) of this AD may be performed by the owner/operator (pilot) holding at least a private pilot certificate and must be entered into the aircraft records showing compliance with this AD in accordance with [14 CFR 43.9\(a\)](#) and [91.417\(a\)\(2\)\(v\)](#). The record must be maintained as required by [14 CFR 91.417](#), [121.380](#), or [135.439](#).

#### **(h) Exceptions to EASA AD 2023–0038**

(1) Where EASA AD 2023–0038 refers to its effective date, this AD requires using the effective date of this AD.

(2) Where paragraph (1) of EASA AD 2023–0038 specifies to “amend the AFM by inserting a copy of the AFM TR,” this AD requires replacing those words with “revise the Limitations Section of the existing AFM for your airplane by inserting a copy of the AFM TR as defined in EASA AD 2023–0038.”

(3) Where paragraph (1) of EASA AD 2023–0038 specifies to “inform all flight crews and, thereafter, operate the [airplane] accordingly,” this AD does not require those actions.

(4) This AD does not adopt the Remarks paragraph of EASA AD 2023–0038.

#### **(i) Alternative Methods of Compliance (AMOCs)**

The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in [14 CFR 39.19](#). In accordance with [14 CFR 39.19](#), send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Validation Branch, send it to the attention of the person identified in paragraph (j) of this AD or email to: [9-AVS-AIR-730-AMOC@faa.gov](mailto:9-AVS-AIR-730-AMOC@faa.gov). If mailing information, also submit information by email. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

## **(j) Additional Information**

For more information about this AD, contact Doug Rudolph, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: (816) 329-4059; email:

[doug.rudolph@faa.gov](mailto:doug.rudolph@faa.gov).

## **(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under [5 U.S.C. 552\(a\)](#) and [1 CFR part 51](#).

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) European Union Aviation Safety Agency AD 2023-0038, dated February 14, 2023.

(ii) [Reserved]

(3) For EASA AD 2023-0038, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 8999 000; email: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu); website [easa.europa.eu](http://easa.europa.eu). You may find this EASA AD on the EASA website [ad.easa.europa.eu](http://ad.easa.europa.eu).

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222-5110.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email: [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: [www.archives.gov/federal-register/cfr/ibr-locations.html](http://www.archives.gov/federal-register/cfr/ibr-locations.html).

Issued on August 17, 2023.

Ross Landes,

Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2023-18121 Filed 8-22-23; 8:45 am]

BILLING CODE 4910-13-P



## PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: [49 U.S.C. 106\(g\)](#), [40113](#), [44701](#).

### **§.39.13** [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

**2023–16–04 Piaggio Aviation S.p.A.:** Amendment 39–22523; Docket No. FAA–2023–1712; Project Identifier MCAI–2023–00821–A.

#### **(a) Effective Date**

This airworthiness directive (AD) is effective August 30, 2023.

#### **(b) Affected ADs**

None.

#### **(c) Applicability**

This AD applies to the following Piaggio Aviation S.p.A. Model P–180 airplanes, certificated in any category:

- (1) Serial numbers (S/N) 1002, 1034 through 1234 inclusive, 3001 through 3014 inclusive, 3016, and 3018; and
- (2) S/N 1004 through 1033 inclusive if modified in accordance with Piaggio Service Bulletin 80–0142.

#### **(d) Subject**

Joint Aircraft System Component (JASC) Code: 5520, Elevator Structure.

#### **(e) Unsafe Condition**

This AD was prompted by a report of corrosion-induced cracking on the horizontal tail trim actuator (HTTA) fitting assembly. The FAA is issuing this AD to address structural failure of the HTTA fitting assembly. The unsafe condition, if not addressed, could result in loss of control of the airplane.

#### **(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

#### **(g) Definitions**

- (1) For purposes of this AD, “light corrosion” is corrosion that does not exceed a depth of 0.15 millimeter (mm) and does not extend beyond 1 square inch (645.2 square mm).
- (2) For purposes of this AD, a “new part” is a part with zero hours time-in-service (TIS).

## (h) Inspection

Within the compliance time for your airplane listed in Table 1 to paragraph (h) of this AD, do a high frequency eddy current inspection of HTTA fitting assembly part number (P/N) 80-363283-401 for corrosion and cracking in accordance with Section 2.B., Part A, Steps (11) through (14) of the Accomplishment Instructions in Piaggio Aerospace Service Bulletin 80-0492, Revision 3, dated June 12, 2023.

**Table 1 to paragraph (h) – Initial Inspection Compliance Time**

<b>Airplanes</b>	<b>Compliance Time</b>
Airplanes that have accumulated less than 3,000 hours TIS and less than 10 years since the date of issuance of the original airworthiness certificate or original export certificate of airworthiness.	Within 140 hours TIS or 8 months after the effective date of this AD, whichever occurs first.
All other airplanes.	Within 30 hours TIS or 60 days after the effective date of this AD, whichever occurs first.

## (i) Corrective Actions

Based on the result of the inspection required by paragraph (h) of this AD, do the applicable corrective action within the applicable compliance time specified in Table 2 to paragraph (i) of this AD.

## (j) Terminating Action

Replacing the HTTA fitting assembly with a new part in accordance with Piaggio Aerospace Temporary Revision TR-031 to Chapter 51-70-70, dated May 29, 2023, to the Piaggio P.180 Structural Repair Manual constitutes terminating action for the repetitive inspections required by paragraph (i) of this AD for that airplane.

## (k) Credit for Previous Action

You may take credit for the initial inspection required by paragraph (h) of this AD if you performed the initial inspection before the effective date of this AD using Piaggio Aerospace Service Bulletin 80-0492, Revision 2, dated May 15, 2023.

## (l) Reporting Requirement

Report to the manufacturer the results of each inspection required by paragraphs (h) and (i) of this AD within the applicable compliance time specified in paragraph (l)(1) or (2) of this AD using the Confirmation Slip attached to Piaggio Aerospace Service Bulletin 80-0492, Revision 3, dated June 12, 2023.

(1) If the inspection was done on or after the effective date of this AD: Submit the report within 10 days after the inspection.

(2) If the inspection was done before the effective date of this AD: Submit the report within 10 days after the effective date of this AD.

### **(m) Alternative Methods of Compliance (AMOCs)**

The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in [14 CFR 39.19](#). In accordance with [14 CFR 39.19](#), send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, mail it to the address identified in paragraph (n)(2) of this AD or email to: [9-AVS-AIR-730-AMOC@faa.gov](mailto:9-AVS-AIR-730-AMOC@faa.gov). If mailing information, also submit information by email. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office.

### **(n) Additional Information**

(1) Refer to European Union Aviation Safety Agency (EASA) AD 2023–0122R1, dated July 5, 2023, for related information. This EASA AD may be found in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA–2023–1712.

(2) For more information about this AD, contact Mike Kiesov, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: (816) 329–4144; email: [mike.kiesov@faa.gov](mailto:mike.kiesov@faa.gov).

(3) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (o)(3) and (4) of this AD.

### **(o) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under [5 U.S.C. 552\(a\)](#) and [1 CFR part 51](#).

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Piaggio Aerospace Service Bulletin 80–0492, Revision 3, dated June 12, 2023.

(ii) Piaggio Aerospace Temporary Revision TR–031 to Chapter 51–70–70, dated May 29, 2023, to the Piaggio P.180 Structural Repair Manual.

(3) For service information identified in this AD, contact Piaggio Aero Industries S.p.A., P180 Customer Support, via Pionieri e Aviatori d'Italia, snc-16154 Genoa, Italy; phone: +39 331 679 74 93; email: [technicalsupport@piaggioaerospace.it](mailto:technicalsupport@piaggioaerospace.it).

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222–5110.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email: [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: [www.archives.gov/federal-register/cfr/ibr-locations.html](http://www.archives.gov/federal-register/cfr/ibr-locations.html).

Issued on August 8, 2023.

Victor Wicklund,

Deputy Director, Compliance & Airworthiness Division, Aircraft Certification Service.

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BILLING CODE 4910-13-C

[FR Doc. 2023-17575 Filed 8-11-23; 4:15 pm]

BILLING CODE 4910-13-P



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**DATE: August 18, 2023**

**AD #: 2023-17-51**

Emergency Airworthiness Directive (AD) 2023-17-51 is sent to owners and operators of Bell Textron Canada Limited Model 407 helicopters.

### **Background**

This emergency AD was prompted by a report of a disbanded area in a tail rotor (T/R) blade due to missing adhesive between the upper skin and core. Transport Canada, which is the aviation authority for Canada, has issued Transport Canada Emergency AD CF-2023-63, dated August 17, 2023 (Transport Canada AD CF-2023-63), to correct an unsafe condition on certain serial-numbered Bell Textron Canada Limited Model 407 helicopters. Transport Canada AD CF-2023-63 states that an operator identified an abnormal sound in a T/R blade while manually rotating it. A subsequent tap inspection revealed a disbanded area that exceeds allowable limits. According to Transport Canada, an investigation by Bell Textron Canada Limited identified 43 T/R blades that could have missing adhesive between the upper skin and core that was caused during the manufacturing process. Accordingly, Transport Canada AD CF-2023-63 requires determining if an affected T/R blade is installed, a one-time inspection of both sides of each affected T/R blade for skin to core voids and, depending on the results, replacing the T/R blade with a serviceable T/R blade. Transport Canada AD CF-2023-63 also limits the installation of a T/R blade to a serviceable T/R blade as defined therein.

This emergency AD is intended to detect skin to core voids that exceed allowable limits in affected T/R blades. This condition, if not addressed, could result in severe vibration, failure of the T/R blade, and subsequent loss of T/R control.

### **Related Service Information**

The FAA reviewed Transport Canada AD CF-2023-63, which requires determining if an affected T/R blade is installed, inspecting each of those T/R blades and, depending on the results, replacing the T/R blade. Transport Canada AD CF-2023-63 also limits installation of T/R blades to serviceable T/R blades, as defined in Transport Canada AD CF-2023-63.

### **Other Related Service Information**

The FAA also reviewed Bell Alert Service Bulletin 407-23-132, dated August 14, 2023, which identifies affected T/R blade part number 406-016-100-119 serial numbers and specifies procedures for inspecting affected T/R blades for skin to core voids. Depending on the results, this service information specifies procedures for reporting information to Bell Product Support Engineering, returning specified T/R blades to Bell for investigation, and replacing a T/R blade.

### **FAA's Determination**

These products have been approved by the aviation authority of another country and are approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in its emergency AD

described above. The FAA is issuing this emergency AD after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

## **Emergency AD Requirements**

This emergency AD requires accomplishing the actions specified in Transport Canada AD CF-2023-63, described previously, as incorporated by reference, except for any differences identified as exceptions in the regulatory text of this emergency AD and except as discussed under “Differences Between this Emergency AD and the Transport Canada Emergency AD.”

## **Explanation of Required Compliance Information**

In the FAA’s ongoing efforts to improve the efficiency of the AD process, the FAA developed a process to use some civil aviation authority (CAA) ADs as the primary source of information for compliance with requirements for corresponding FAA ADs. The FAA has been coordinating this process with manufacturers and CAAs. As a result, Transport Canada AD CF-2023-63 is incorporated by reference in this FAA emergency AD. This emergency AD, therefore, requires compliance with Transport Canada AD CF-2023-63 in its entirety through that incorporation, except for any differences identified as exceptions in the regulatory text of this emergency AD. Using common terms that are the same as the heading of a particular section in Transport Canada AD CF-2023-63 does not mean that operators need comply only with that section. For example, where the emergency AD requirement refers to “all required actions and compliance times,” compliance with this emergency AD requirement is not limited to the section titled “Corrective Actions” in Transport Canada AD CF-2023-63.

## **Differences Between this Emergency AD and the Transport Canada Emergency AD**

Transport Canada AD CF-2023-63 applies to certain serial-numbered Bell Textron Canada Limited Model 407 helicopters, whereas this emergency AD applies to all Bell Textron Canada Limited Model 407 helicopters. Transport Canada AD CF-2023-63 does not clearly specify how to inspect affected T/R blades for skin to core voids, whereas this emergency AD requires tap inspecting each affected T/R blade for skin to core voids.

## **Justification for Immediate Adoption and Determination of the Effective Date**

Section 553(b)(3)(B) of the Administrative Procedure Act (APA) (5 U.S.C. 551 *et seq.*) authorizes agencies to dispense with notice and comment procedures for rules when the agency, for “good cause,” finds that those procedures are “impracticable, unnecessary, or contrary to the public interest.” Under this section, an agency, upon finding good cause, may issue a final rule without providing notice and seeking comment prior to issuance. Further, section 553(d) of the APA authorizes agencies to make rules effective in less than thirty days, upon a finding of good cause.

An unsafe condition exists that requires the immediate adoption of this emergency AD to all known U.S. owners and operators of these helicopters. The FAA has found that the risk to the flying public justifies foregoing notice and comment prior to adoption of this rule because each T/R blade is critical to the control of a helicopter. Debonding of a T/R blade could lead to instantaneous failure before detection. Additionally, affected T/R blades are installed on high usage helicopters, which could increase the likeliness of occurrence of a failure. In light of this, the initial action required by this emergency AD must be accomplished within 10 hours time-in-service or 14 days, whichever occurs first. This compliance time is shorter than the time necessary for the public to comment and for publication of the final rule. Accordingly, notice and opportunity for prior public comment are impracticable and contrary to the public interest pursuant to 5 U.S.C. 553(b)(3)(B).

In addition, the FAA finds that good cause exists pursuant to 5 U.S.C. 553(d) for making this amendment effective in less than 30 days, for the same reasons the FAA found good cause to forego notice and comment.

### **Authority for this Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### **Presentation of the Actual Emergency Airworthiness Directive**

The FAA is issuing this emergency airworthiness directive under 49 U.S.C. 106(g), 40113, and 44701 according to the authority delegated to me by the Administrator.

**2023-17-51 Bell Textron Canada Limited:** Project Identifier MCAI-2023-00980-R.

#### **(a) Effective Date**

This emergency airworthiness directive (AD) is effective upon receipt.

#### **(b) Affected ADs**

None.

#### **(c) Applicability**

This emergency AD applies to Bell Textron Canada Limited Model 407 helicopters, certificated in any category.

#### **(d) Subject**

Joint Aircraft Service Component (JASC) Code: 6410, Tail Rotor Blades.

#### **(e) Unsafe Condition**

This emergency AD was prompted by a report of a disbanded area in a tail rotor (T/R) blade due to missing adhesive between the upper skin and core. The FAA is issuing this emergency AD to detect skin to core voids that exceed allowable limits in affected T/R blades. The unsafe condition, if not addressed, could result in severe vibration, failure of the T/R blade, and subsequent loss of T/R control.

#### **(f) Compliance**

Comply with this emergency AD within the compliance times specified, unless already done.

## **(g) Requirements**

Except as specified in paragraphs (h) and (i) of this emergency AD: Comply with all required actions and compliance times specified in, and in accordance with, Transport Canada Emergency AD CF-2023-63, dated August 17, 2023 (Transport Canada AD CF-2023-63).

## **(h) Exceptions to Transport Canada AD CF-2023-63**

(1) Where Transport Canada AD CF-2023-63 refers to its effective date, this emergency AD requires using the effective date of this emergency AD.

(2) Where Transport Canada AD CF-2023-63 requires compliance in terms of hours air time, this emergency AD requires compliance using hours time-in-service.

(3) Where paragraph A.2. of Transport Canada AD CF-2023-63 requires inspecting an affected T/R blade and the service information referenced in paragraph A.2. of Transport Canada AD CF-2023-63 specifies inspecting an affected T/R blade, this emergency AD requires using a steel tap hammer and tap inspecting each affected T/R blade.

(4) Where the service information referenced in Transport Canada AD CF-2023-63 specifies returning parts to the manufacturer, this emergency AD does not include that requirement.

## **(i) No Reporting Requirement**

Although the service information referenced in Transport Canada AD CF-2023-63 specifies to submit certain information to the manufacturer, this emergency AD does not include that requirement.

## **(j) Special Flight Permits**

A special flight permit may be issued in accordance with 14 CFR 21.197 and 21.199 to operate the helicopter to a location where the tap inspection can be performed, provided no passengers are onboard.

## **(k) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this emergency AD, if requested using the procedures found in § 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (l)(1) of this emergency AD or email to: 9-AVS-AIR-730-AMOC@faa.gov. If mailing information, also submit information by email.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

## **(l) Additional Information**

(1) For more information about this emergency AD, contact Dan McCully, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone (404) 474-5548; email william.mccully@faa.gov.



(2) For Bell service information identified in this emergency AD, contact Bell Textron Canada Limited, 12,800 Rue de l'Avenir, Mirabel, Quebec J7J 1R4, Canada; phone 1-450-437-2862 or 1-800-363-8023; fax 1-450-433-0272; email [productsupport@bellflight.com](mailto:productsupport@bellflight.com); or at [bellflight.com/support/contact-support](http://bellflight.com/support/contact-support). You may view this referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222-5110.

(3) The subject of this emergency AD is addressed in Transport Canada Emergency AD CF-2023-63, dated August 17, 2023. For this Transport Canada material, contact Transport Canada, Transport Canada National Aircraft Certification, 159 Cleopatra Drive, Nepean, Ontario, K1A 0N5, CANADA; phone 888-663-3639; email [TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca](mailto:TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca); internet [tc.canada.ca/en/aviation](http://tc.canada.ca/en/aviation). You may find the Transport Canada material on the Transport Canada website at [tc.canada.ca/en/aviation](http://tc.canada.ca/en/aviation). You may also view this Transport Canada material at the FAA address identified in paragraph (1)(2) of this emergency AD.

Issued on August 18, 2023.

Ross Landes, Deputy Director for Regulatory Operations,  
Compliance & Airworthiness Division,  
Aircraft Certification Service.